

Z\*NET: ATARI ONLINE MAGAZINE

Issue #24

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$ Genie Address.....Z-NET
$ CompuServe Address.....75300,1642
$ Delphi Address.....ZNET
$ Internet/Usenet Address.....status.gen.nz
$ America Online Address.....ZNET1991
$ AtariNet Address.....51:1/13.0
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\* \* --CONTENTS-- \* \*

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##### THE EDITORS DESK
##### By Ron Kovacs
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This is the LAST edition of Z\*Net for 1992. In this issue we conclude our 1992 Year In Review.

#### END OF YEAR COMMENTS

In reflecting this year 1992, all I can say is come on 1993. This year was a very long trying one. There was the merger with Atari Explorer, which went from exciting with the first issue to a bad note on the second release after the resignation of John Janischigg. My marital status changed and the new world of rearing children of divorced parents began. The sudden loss of a close and dear friend, Stan Lowell, and numerous other "poor luck" situations arose.

However, these tribulations are not stated here for sympathy. I know for a fact that a few other Atarians also experienced some hard times this year and with only a week to go, we have 1993 to look forward to. With the new year, a new beginning. Let's all start the new year off on a positive note, leave the complaining behind us and try to help other Atari users.

Z\*Net returns in 1993 with Z\*Net PC News and our Atari Online Magazine. The entire staff of Z\*Net wishes everyone best wishes for the holidays and hope 1993 brings better things for everyone. We thank you for reading Z\*Net and supporting us through all of trying times this year. As I do every year, I want to thank the following for their assistance during the year and if I fail to list anyone's name here, please forgive me.

John Nagy and Bob Brodie for their support and ears, Bob Smith, Sandra Burns, Dr. Paul Keith, Ed Krimen, Mike Mezaros, Mike Davis, Bill Scull, Bruce Hansford, Lisa Ruff, Darlah Potechin, Ron Luks, John Tarpinian, Steve Rider, Mike Burkley, Ron Berinstein, Jon Clarke, Linda Lowell, Alan Schneider, Steve Scavone, Laura Kovacs, Bill Whiteman, John Janischigg, Gene Kovacs, and prayers to Stan Lowell and family, who is still greatly missed around here.

##### Z\*NET NEWSWIRE

##### Atari and Industry News Update

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#### WORDPERFECT TO GO PUBLIC

WordPerfect is planning to go public with a stock offering that may raise as much as \$250 million, according to PC Week magazine in it's December 21 edition.

#### STEVEN ROSS DIES AT 65

Steven J. Ross, chairman of Time Warner died last week at 65. Ross, who had been on a leave of absence from the company undergoing treatment for prostate cancer, died "peacefully,." Ross became chairman and co-chief executive officer of Time Warner in May 1990, following the merger of Warner Communications Inc. (WCI) with Time Inc. Since the early 1960s, Ross was among the pioneers of new interactive electronic technologies. Prior to the creation of Time Warner, Ross founded and served as chairman and chief executive officer of Warner Communications Inc.

Under his leadership, WCI's revenues grew from \$17 million in 1961 to \$4.2 billion in 1988. Over the same period, the company's market value increased from \$12 million to \$14 billion. A cable partnership with WCI and American Express Co., created and launched Nickelodeon, a cable channel for children; The Movie Channel, the nation's first 24-hour pay service; and in 1981 the phenomenal MTV: Music Television cable channel. Services will be private and Ross's family asked in that lieu of flowers, contributions be made to the New York Police Department Police Athletic League and the Children's Health Fund. A memorial service will be held in January.

#### FCC FINES \$600,000

The FCC has imposed a \$600,000 fine against Infinity Broadcasting which employs Howard Stern, contending it aired "indecent broadcasts" by the controversial radio personality known for raunchy language that many deem offensive. The largest fine of its kind was imposed against Infinity which licenses WXRK-FM in New York, WYSP-FM in Philadelphia, and WJFK-FM in Manassas, Va. Those stations carry Stern's morning talk show. Stern is an acerbic, long-haired radio host known as a "shock jock" for the content of his broadcasts, which some people find shocking, off-color and offensive. His remarks have touched on sex, AIDS and minorities.

##### Z\*NET NEWS YEAR IN REVIEW - PART THREE

##### By Ron Kovacs

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This week we conclude the regular Z\*Net tradition of looking back at the year in review. We are focusing on the events we COVERED in Z\*Net and Atari Explorer issues in 1992. Last week we covered February thru May 1992.

\*\*\*--JUNE 1992--\*\*

GENie's "Hot Summer Days" sale is announced. From June 15 to September 7, GENie's prime time hourly connect charge is reduced from \$18.00 per hour to \$12.50 per hour.

Floppyshop announces the release of "Family Roots". The program is designed around a fully functional integrated workbench which is ideal for both the serious and beginner user.

FBI agents raid a Boston computer BBS suspected of illegally distributing copyright software to subscribers in 36 states and 11 foreign countries - including Iraq. No arrests were made in the raid on the Davy Jones Locker BBS in Millbury, Mass., but computers and telecommunications equipment were seized, along with financial and business records.

MCI Chairman William G. McGowan dies at age 64 after suffering a heart attack.

The Second Milwaukee Atari Show is held by the Milwaukee Atari ST User Group (MAST).

The Blue Ridge Atari Computer Enthusiasts (BRACE) holds the Third Annual Blue Ridge Atarifest. Mike Groh of Atari is in attendance.

ISD announces the winning entries in the 2nd Annual Calamus Family Creativity and Design Contest.

Intersect Software is still in business and supporting the Atari. They are rewriting Interlink to take advantage of all ST/STE/TT (and Falcon?) resolutions.

MIDImouse Music develops a set of four individual programs that combine tutorials and drill aides for beginning and intermediate music students. Note Wizard, Scale Master, Chord Magic, and Rhythm Time.

Atari searches on for a replacement editor for Atari Explorer Magazine.

Atari announces that the tentative North American debut of the Falcon030 will be at the Boston Computer Society on September 23, 1992.

Darek Mihocka announces that debut of GEMulator I will debut at the Glendale Atarifest.

On the subject of the Atari ST Book, John Townsend states on GENie, "The STBook is still in the works. We should have some to sell in the near future. I think the problem has been a number of production mess-ups. I think these problems have been cleared up and we should be seeing the STBook in the very near future."

FSMGDOS delays continue. John Townsend states, "Packaging isn't the hold up. The hold up has been legal problems. We are attempting to get this straightened out as soon as we can. Believe it or not, we don't develop products and just sit on them to spite anyone. We really want to sell the stuff. Unfortunately, producing products is a a process that involves a LOT of people and steps. If a delay is encountered in a step, it throws off the rest of the steps after that step. Those are just the facts."

Invision Elite is announced. This program allows you to create sophisticated black and white raster images. A demo version is released with an announced release date of August 1, 1992.

Atari holds a developer conference in London with over 120 developers in attendance. Attendance at the confernce was by invitation only which included staff from Atari Sunnyvale including Sam Tramiel, Bill Rehbock and John Skruch.

\*\*\*--JULY 1992--\*\*\*

This month marks the 20th anniversary of Atari and the 8th anniversary of the Tramiel ownership.

Atari Advantage Magazine announces an exclusive article and interview to be published with Bill Rehbock about the new Atari Falcon computer.

ST-Report Online Magazine publishes defamitory information about AtariUser Editor in Chief John Nagy and Atari Corp.. Nagy called the editor of the publication to complain and request removal of the issue from all the distribution services, later a new issue was released minus

the offending comments.

Nintendo and Atari announce that Atari has withdrawn its appeal of a jury verdict and judgment in favor of Nintendo in Atari's antitrust case against Nintendo. Nintendo decides it will not proceed with its request to recover certain court costs from Atari.

Gribnif Software moves to new offices. The new address and telephone numbers are: P.O. Box 779, Northampton, MA 01061. Main line (including technical support): (413) 247-5620. Fax line (24 hours): (413) 247-5622

Citizen Watch announces it has developed the world's thinnest 3.5 inch floppy disk drive for use in portable computers. The disk drive will be able to handle floppy disks of 1 megabyte, 1.6 megabytes, and 2 megabytes.

Lewis Galoob Toys announces that it has been awarded a \$15 million judgment against Nintendo.

The Mid-Indiana ST's MIST Atarifest IV is held in Indianapolis.

Chicago area residents had the opportunity to play and win one of at least 45 Atari Lynx Color Portable Video Game Systems during the 1992 Taste of Chicago.

Taylor Ridge Books announces the release of The GFA-BASIC Toolkit, Volume 1, which contains a wealth of programming routines for GFA-BASIC programmers, written by John Hutchinson of Fair Dinkum Technologies.

SDS announces that it will be distributing an ST version of Fotoman with software.

"It's All Relative" gets license for distribution and use of Photo CD software. They plan on offering a conversion service for Photo CD to ST readable format starting on or about August 1. The new Photo CD system requires a mode 2, XA, multi-session drive for full use.

Bob Brodie, Atari's Director of Communications updates the status of the ST Book on GENie. "The initial ST Books that Atari manufactured were with one meg of ram, and a forty meg hard disk. While that is a very usable unit to a lot of people, we felt that the US market would prefer a 4 meg of ram, 40 meg hard disk. So, Atari US didn't order any of those units. At present, we re-evaluating the decision NOT to include a backlit screen."

Darlah Potechin begins a new feature on GENie. "Darlah's Treat - The Free File Of The Month!" Each month the roundtable will offer a file for free download.

ISD Marketing changes it's name to DMC Publishing.

Atari Advantage ceases publishing operations after only three issues, as the publisher and editor have been hired to take over production of Atari's in-house magazine, Atari Explorer. Mike Lindsay and Darren Meers relocate to Sunnyvale to pilot the glossy bi-monthly Explorer after their short but well-received stint producing their own Atari magazine.

Lombard Illinois offices of Atari Entertainment relocate to Sunnyvale. Home of the Lynx development team, Lombard will remain open as a

programming center, but sales, marketing, and support for the Lynx and soon the Jaguar will be part of the California operation under the guidance of Bernie Stolar. Leaving Atari are Larry Seigal and Dana Plotkin, who did not wish to relocate.

An August 3, 1992 issue of Forbes Magazine recounts the Atari story in a two-page article called "Cheap Didn't Sell" by Dyan Machan. The famed business/industry reporting magazine blames Atari's troubles on the Tramiel family's penny pinching. The article does mention the new line of Falcon computers and the Jaguar game console, but speculates that Atari has less than half of the cash needed to perform an appropriate roll-out of the new products.

Superbase database systems were acquired by Oxxi Inc. who will offer upgrades for the popular line of software.

ICD announces The Link, a new host adaptor that will enable standard ST computers to use industry standard SCSI devices, including hard drives, CD ROM drives, and flopticals designed for IBM, MAC, and Amiga.

AtariUser Magazine announces a promotional price cut in their home subscription rates. New and renewal subscribers can take a \$5 discount and pay just \$15 for one year, 12 issues of the magazine with standard 3rd class delivery.

Supra releases 2 new 9600 modems - the 9600 Supra FaxModem v.32 and the 14400 Supra FaxModem v.32bis at a retail price of \$299.95 and \$399.95 respectively.

John Jainschigg completes the last issue of Atari Explorer under his direction.

Atari completes porting UNIX to the Atari platform, but for the full power of UNIX, with a complete windowing environment, Atari prefers to wait for a 68040 based machine. Until those products are ready, they table all plans for UNIX.

"Right Sizing" at Atari continues. Atari Canada evolves into a sales office, still headed up by Geoff Earle. All support services are handled out of Sunnyvale. Atari Project manager Art Pruzynski moves into a US Sales position and National Sales Manager Mike Groh leaves.

Atari announces that the first public unveiling of the Falcon030 will be at the Atari Messe in Duesseldorf, Germany in late August.

The GENie ST RT receives it's 25,000th uploaded file.

Atari Advantage Magazine is sold to Castle Publishing in Texas.

The First Annual "Digital Quill" awards for excellence in electronic publishing are announced. Regular Computer/Technical Publication - a weekly, monthly or bi-monthly publication that has been in publication for 6 months or more relating to computers or technology. #1 Winner: "Files and Stuff" newsletter; Henry Barfoot and Lupe Tingle, Editors. #2 First Runner-up: "EFFector" (Electronic Frontier Foundation Online) newsletter, Rita M. Rouvalis, Editor. #3 Second Runner-up: "Z\*Net PC" newsletter, Ron Kovacs, Editor.

Atari's Director of Communications reports that he has recently had a number of complaints about a certain mail order firm based in Florida. It seems that this particular firm, which does not have authorization to purchase TT030's directly from Atari, has been taking orders AND PAYMENT of TT030s and TT030 monitors.

Maxwell C.P.U., the developers of Silhouette, Fractal Fantasy, Expose and Megstenders, move east to Maryland. Maxwell CPU, 1533 Meyer's Station Rd., Odenton, MD 21113, Phone: (301)261-0637.

A federal judge decides that he will not reconsider most of Apple's copyright infringement suit against Microsoft and Hewlett-Packard that he had previously thrown out.

The US House gives final congressional approval to a measure that attempts to further curb "indecent" television and radio programming.

Innerprise US decides to drop ST support.

Microprose UK was deluged with letters from ST gamers who wanted to play Civilization on their machines, so they gave in. Civilization will be completed for the Atari.

The Midwest Atari Regional Council, a coalition of Midwestern users groups, presented MARC Fest '92 in Collinsville, IL.

The Connecticut AtariFest '92 is held.

Atari launches it's new Falcon030 at the Dusseldorf Atari Messe with claims that the long awaited machine is not so much an evolution as a revolution-and with both journalists and dealers agreeing that for once, the enthusiasm is richly deserved.

Sam Tramiel is the guest host of an online conference on GENie and details Falcon news released at the Dusseldorf Atari Messe Show.

**\*\*--SEPTEMBER 1992--\*\***

Atari's Bill Rehbock hosts two online conferences and details further information about the Falcon.

Atari announces quarterly financial reports showing a net loss of 39.7 million dollars. According to Atari employees, there is at least \$60 million available in cash at this time to launch the new line of computers.

Migraph introduces a new full-page scanner, as well as an upgraded Touch-Up software package.

Hayes and Zenith announce an amicable out-of-court settlement of the patent infringement litigation between the two-companies involving the Hayes '302 Escape Sequence Patent.

InfoWorld publishes an article on Microsoft's use of "undocumented" APIs (Applications Programming Interfaces) in its applications for the Microsoft Windows operating system, raising the issue of whether or not this constituted an unfair advantage over its competitors.

DragonWare Software announces that it will release SCSI EtherNet and Direct Ethernet in January 1993.

Atari announces that it is now taking commercial-level developer orders for the production-level Atari Falcon030. These developer machines are shipped with 14MB of RAM and a 65MB harddisk.

Gribnif Software announces the release of CardFile 4. A Personal Information Manager software for the Atari ST/TT.

Synergy Resources announces the release of an updated version of GEMvelope! the envelope printer.

Oregon Research announces the addition of two new programs to their line of ST software: Diamond Edge and The Ultimate Virus Killer.

Double Click Software announces The Storm by Alan Page. Page was the author of Flash, a telecommunications program for the ST. Storm is said to be the next step for telecommunications software.

DragonWare Software Releases PowerDOS as Freeware.

San Diego ACE participates in a multi-platform Computer Fair in which nearly 10,000 attend the show.

The Fall Seybold Show is held. This was one of the top industry trade shows specializing in high-end publishing.

Stan Lowell, long time Z\*Magazine editor and contributor to other Z\*Net projects dies at age 46 of heart attack.

Sam Tramiel and Bill Rehbock attend a special taping for the program PCTV in New Hampshire.

John King Tarpinian, Glendale show spokesperson and organizer, announces the 1993 Glendale Show for September 18 - 19, 1993.

CompuServe and Visa announce a new five-year, \$72 million agreement for CompuServe to provide network services for VisaNet, the bank card association's point-of-sale (POS) authorization and settlement network used by retailers.

Sony introduces the first portable, self-contained Multimedia CD-ROM Player.

A 16-year-old computer hacker faces fraud charges for allegedly using his computer to break into a long-distance telephone service system and charge more than \$10,000 worth of calls.

The FCC issues new rules governing the telemarketing field, with the aim of cutting back on intrusive telephone solicitations.

Nearly 2,500 people meet at the Southern California Atari Computer Faire, Version 6.0, (The Glendale Show). It was another major success for organizer John King Tarpinian and his HACKS user group. This show series featured the first ever Atari Corporate participation in a user group show when it began seven years ago, and with a single interruption, what has become known as "The Glendale Show" has been a top draw in every year since.



Another first for Glendale is an online conference after the event with show organizers and representatives from Atari Corporation. Bob Brodie states during the conference, "We were very impressed with the upbeat mood of the crowd, and the sales that our dealers reported. Even though the attendance was a little bit down this year, the dealers reported higher sales. So we were very pleased. In addition, we had a chance to spend quite a bit of time with Jerry Pournelle. And he was impressed. All in all, a very upbeat, positive weekend."

Atari announces its new multitasking operating system, called MultiTOS in Boston. Available with the new Atari Falcon030 personal integrated media machine, the system is said to be available in November at Atari distributors around the country.

Bill Rehbock states "quite soon" on the release of FSMGDOS.

The July/August issue of Atari Explorer Magazine begins to appear in readers hands.

The Atari Portfolio begins to appear in a number of films and television series like, "Made In America" with Whoppi Goldberg and Ted Danson, and in the TV show "Parker Lewis Can't Lose" on the FOX network.

The Atari Falcon030 made its official US premier at a press conference at a Boston Computer Society meeting on September 23 1992. This was the "rollout" for the new computer that had already made sneak preview appearances at the California Glendale Show as well as at Atari Messe in Germany.

As part of the diversification of Quill Publishing, the successful AtariUser Magazine has establishes its own separate office and staff. 249 North Brand Boulevard, Suite 332, Glendale, CA 91203 818-246-6277

Festival Atari de Montreal et Environs is held and was the first Atari Fest held in the Montreal area in four years. The show is attended by a little over 200 people. Although the show was relatively small, the enthusiasm and interest of the participants more than made up for the low turnout.

**\*\*--OCTOBER 1992--\*\***

Atari Explorer Online Magazine goes on hiatus as editor Ron Kovacs announces the return of Z\*Net Online Magazine. New editors are to take over the regular duties. Kovacs states, "There has been a lot of speculation as to why the return of Z\*Net, and more recently, rumors spreading about a falling out or even something more disasterous. There is nothing further from the truth about the seperation, it was amicable, friendly and our relationship remains very strong. Our hopes are that the two online magazines enhance each other."

Atari Corp continues to re-shape itself in preparation for 1993's marketing of their new products. Trimming more people and places from the expense column this fall is the announced closing of Atari's Dallas, Texas research and development labs. Forty employees and programmers working there have been offered relocated jobs at the Sunnyvale, California headquarters of Atari. It's said that a few employees who are now job shopping have a resume entry that states that their latest completed project was the Atari 68040 design.

Eric Smith, the original MiNT multitasking programmer whose project is the basis for the upcoming MultiTOS, starts full-time work at Atari and Ken Badertscher accepts a position with Taligent, the IBM/Apple project consortium.

Bernie Stolar resigns. Bernie's accomplishments during his 9-month stay include many game development contracts for Atari computers, management of the consolidation of the Entertainment division, and hiring of the new Atari Explorer magazine staff.

Alwin Stumpf resigns as long-time head of Atari Germany.

The Sheraton Reston in Virginia had another full house at this year's WAACE Atari festival attended by 1,200 to 1,400 people, down from last year's 2,000, 40 vendors still made their traditional record breaking sales. Atari sends Bill Rehbock and several Falcons to the event.

Jon Clarke of Z\*Net's Global News Gateway hosts worldwide real-time conference from the head office of the HongKongBank in Hong Kong. This is the first link to Hong Kong and a view of Atari dealers there.

C-Lab, developers and manufacturers of Atari MIDI sequencing programs, Creator and Notator, are taken over by a new company formed by Ensoniq, the US distributors of C-Lab as well as a line of electronic hardware for the music industry. EMAGIC will maintain support and development of the Atari platform, and includes some of the same people who were C-Lab.

Zubair Interfaces develops the Z-RAM/Falcon, a 4 or 16 Megabyte upgrade board for the as yet unavailable Atari Falcon030.

America Online announces that more than 200,000 households are now subscribing to the company's popular consumer online services.

The third annual Houston "Atari Safari" is held and is said to be a success. Nearly 200 attend along with Bob Brodie and Atari developers.

**\*\*--NOVEMBER 1992--\*\***

Gribnif Software announces the release of XBoot III, a "faster, more compatible and more flexible than ever" version of their boot manager.

Joppa Software announces the release of STraight FAX! Version 1.06, a maintenance upgrade from Version 1.05 which was released at the WAACE AtariFest '92 in October.

Oregon Research announces that they have begun supporting the HiSoft family of products for the North American market.

Dave Small announces that he is starting to go through the back log of messages, faxes and email during his absence. Small states, "Gadgets is definitely doing fine, we're not leaving Atari, and we have new things under development. The SST accelerator has been shipping since February and MegaTalk has been shipping since September, Spectre GCR 3.0 has an extensive facelift ongoing."

Atari is the sponsor of MTV's Halloween Dance Party where the Atari LYNX is used in a contest that takes place about 15 minutes or so, where the winner would receive a Lynx.

The first 030 machines arrive in Germany but it is only about 200. As for England they are said to have about 2000 machines before Christmas, and Germany some more, but there will be no mass sale until early '93.

Dragonware Software announces that it has been unable to renew its license to manufacture PowerNet. Both PowerDOS and PowerNet have been sold by the programmer to ViewTouch Corporation.

The Independent Association of Atari Developers announces the election of a new, expanded Board of Directors. Newly-elected Board members include: Nathan Potechin of ISD/DMC, Nevin Shalit of Step Ahead Software, Jim Allen of FAST Technology, Chet Walters of Wizworks!, and Dorothy Brumleve of D.A. Brumleve. Brumleve will serve as President.

Commodore unveils the Amiga 1200 which incorporates Commodore's 32-bit Advanced Graphics Architecture (AGA) and comes with a 3.5-inch floppy drive, 2MB of RAM and an internal IDE interface.

Atari appears at COMDEX. John Nagy comments in his review of the event, "It was Atari's most confusingly upbeat but self-distracted COMDEX showings to date. Showing dozens of Falcon030 computers in a new and spacious booth, Atari Corp again used the USA's largest trade show to try to show what third-party developers have for the platform. They did it to a fault, almost to the point of downplaying the remarkable power of the new Atari hardware itself. And like the story of the blind men around an elephant, impressions made on the fleeting passersby were likely to be unfairly singular and disjoint. Overheard while someone passed on the side of the booth where games were showing: "Huh. Atari. Just games. Oh well." Wrong. But he'll never know differently. Large quantities of empty floor space within the booth didn't help Atari make points, either."

Sam Tramiel attends a conference on GENie live from COMDEX. Sam opened the conference by stating "The important thing is to market the machine properly and we are now planning the advertising for Q1 of 1993. The (Jaguar) just finished the first two developer conferences, one in Sunnyvale, the other in London. It's going to be an awesome entertainment machine and delivery will be 2nd half of 93."

IBM's OS/2 2.0 receives top honors from three PC industry publications, including two awards presented at Comdex.

WordPerfect announces its first-ever television advertising campaign, premiering three 60-second commercials in support of the company's "Beyond Words" marketing campaign introduced at Comdex.

Penthouse magazine launches Penthouse OnLine while Gennifer Flowers makes electronic appearances during the event.

Lexicor Software announces that Phoenix, will be released in December. Phoenix will enable ST computer users to create stunning 512-color animations as well as still images.

Atari announces the availability of The 1992 International Software Catalog (Item# C303288-001).

On the topic of Word-Up, John Townsend states on GENie, "I am sorry that your \$140 investment was wasted on WordUp. I wish something different was going to come of it, but alas I am afraid that WordUp is probably dead at this point. But, remember, Atari didn't get one red cent of

your money. All we did was purchase the source code from a company that was about to go under and attempt to save a product from going down with it. Unfortunately, the source code was in about the same state as the company. The good news is that Atari will have a program called ST Works which will have a good word processor, spreadsheet, and database in one program!"

Sam Tramiel announces during his online conference that ST Sutra (the MSWorks- like multi-program nearing release) is being renamed "Concierge".

Atari announces an advertising campaign and offer for the Atari Lynx Portable. For a limited time you can purchase an Atari Lynx for just \$79.95.

Atari Explorer Online Magazine announces the return of regular release in early December.

With this being December real fresh in the minds of everyone, we will save you the re-read. We have covered 12 months from December 1992 through November 1992. See you next in the Year In Review: 1993.

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##### PERUSING GENIE
##### Compiled by Ed Krimen
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Some messages may have been edited for correct spelling, grammar, and irrelevant material.

BOB, WHERE ARE THOSE FALCONS?!

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==> In the "Atari Corporation Online" category (14)
==> from the "Atari Falcon 030 Computer" topic (20)
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Message 116            Sat Dec 19, 1992  
BOB-BRODIE [Atari Corp.]       at 23:59 EST

Sam did indeed realistically expect Falcons to hit in October, and the date slipped for the US. There was a problem that I am not at liberty to discuss, although I will say that it was not technical in nature. Among other concerns were slow negotiations with companies for some of the products that we want to have either bundled with the Falcon030, or have available at the same time. For example, the Photo-CD software is something that we very much want to bundle with the Falcon030. However, that contract wasn't signed until November. That creates a rather obvious problem in shipping the software.

The demand for units by developers (current, new, and returnees) has been considerable. All across the globe Atari Falcon030s have been in high demand. While it is disappointing that they are not for sale in North America, it is very encouraging to see the demand from developers is extraordinarily high! And it is for sale "on this planet", in Europe.

I take exception to your description about the re-design of the ST Book,

David. We were highly criticized by people right here for the lack of the backlight on the ST Book. We explained the intent of the unit, and the fact that backlighting it would dramatically reduce the viability of the unit as a notebook. We went to NAMM and heard the very same concerns...and reacted. "Without warning, we pulled the plug on the ST Book." Hardly! We took the concerns of our dealers and users to heart and have the unit in for re-design. If the "don't bother, it's no use" sentiment of your message is indeed correct, I'll be happy to pass that information along to the appropriate people here in Sunnyvale.

And again, even though you don't like to hear it, we always indicated that the main push was slated for January. We got the "what no Falcon for Christmas?" messages \_way back\_ in August. It was felt that by being up front and telling you realistically what we felt we could accomplish we were doing the right thing. I still think that we were correct in being up front about it. We should always tell what we can do, and when we believe we will be able to do it.

Will the "story of the ST Book be the story of the Falcon030?" NO! The ST Book was regarded as an addition to the existing lineup of computers. It was/is, a highly portable unit. Its main technical advantages were the incredible battery life, which was rejected by users and dealers as significant. The Atari Falcon030 represents a substantial technical advancement in personal computing. Publications like EQ recognize that, so does Electronic Musician, Keyboard, people like Jerry Pournelle, Craig Anderton, and CNN is talking extremely positive as well.

In almost every instance where a developer has a Falcon030, they are pleased, and have new applications coming. HiSoft has a terrific paint program coming, Lexicor is working on a bunch of stuff, JRI has a GENLOCK and a video digitizer, and of course there are brand new products like the voice mail system from D.O.A. I wonder why those aren't being discussed?

regards,  
Bob Brodie

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JOUST IS OUT!

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--> In the "Lynx - The Game Machine" category (36)  
--> from the "Games - What is out there??" topic (2)

Message 92                    Wed Dec 23, 1992  
R.MUNOZ                      at 19:01 EST

Yep! JOUST IS OUT!!!! I just got it today (12/23/92) at the local Electronics Boutique, and it is a very, very good translation! Although I did not play Joust that much when it came out, I still enjoyed it, and from what I can remember, IT IS an extremely good translation; kudos to Shadowsoft for doing it again (although I still think Robotron is the best translation of all the Lynx games!). In anycase it is out!

The controls were handled well - either the A or B buttons are used to flap the wings to fly and the joypad is used to walk/fly in the direction that you press it; very simple! I also believe the game is in stereo (correct me if I am wrong on this), with what I think are digitized sounds specially for the screeching of ostrich when you are trying to stop - very nice!

Please, others that are more avid Joust players give your reviews when you get it! Additionally, EB also had Dirty Larry and Dracula - The Undead!!! This latter one looks very nice!! Has anyone gotten Dracula yet? Please post info on it if you get it! Take care...

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EVERYTHING YOU WANTED TO KNOW ABOUT FAX PROTOCOLS, I THINK

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-=> In the "Hardware" category (4)  
-> from the "Straight FAX! & Joppa FAX/Modems!" topic (24)

Message 132            Tue Dec 22, 1992  
C.S.SMETON [STraight FAX]    at 05:29 EST

Technically speaking a Class 2 Only FAX Modem is superior to a Class 1 Only FAX Modem. The FAX Modem is composed of 3 sub-systems: A microcontroller processor with a UART, RAM and ROM firmware, A FAX/Data Modem Data Pump (i.e. specialized Digital Signal Processor DSP), and the telephone interface ringer circuit. The difference between Class 1 and Class 2 is in the FAX Modem firmware. Supra FAX Modems support both Class 1 & Class 2. Others are Class 1 only or Class 2 only.

With Class 2, the low level timing and Group 3 FAX Protocol are performed by the microcontroller in the FAX Modem. In Class 1, this is handled by the DTE computer. Since the interface between the FAX Modem and Computer is a relatively slow RS-232 (19200 baud), this places an extra burden on the DTE computer as to the timing of commands. Since most of the protocol work is performed by the DTE Computer, A Class 1 only FAX Modem does not require as a powerful microcontroller as a Class 2 FAX Modem. As such there are some very inexpensive 2400 baud/Class 1 FAX Modems available in the \$80 range (i.e Zoom AFX).

A FAX Modem that also supports V.32, V.32bis, V.42, V.42bis on the data side will also require a more powerful microcontroller. So then why have companies like Hayes and US Robotics released Class 1 only FAX Modems?

Answer: Politics.

Hayes and US Robotics are members of the EIA/TIA TR29-2 committee that decides FAX standards. Class 1 was approved in late 1990. The first Class 2 ballot was presented later in 1990. It has been re-written and submitted three more times before being approved recently. Guess who has voted against it?

After the first Class 2 ballot was voted down, chipset vendors such as Rockwell, Sierra Semiconductor and Exar decided to release products based on the first Class 2 ballot. This created a bit of difficulty for software developers as each manufacturer's implementation varied slightly and it was possible that a program will work with one manufacturer's product but not on another.

Why would the big name, high end Modem vendors not want Class 2 to be approved? The answer is simple. Rockwell, Sierra and Exar are big Semiconductor companies, not modem vendors. They sell these chips to companies like Zoom, Supra, Cardinal & Practical Peripherals who in turn manufacture the FAX Modem and sell in volume at a very competitive price.

Hayes & US Robotics design the modem in house and have lost significant market share to these other modem vendors. By voting against Class 2, they hoped to delay its availability and as such retain their market share. It back fired when the Class 2 products hit the street. Some of the people who work for these companies deny the existence of Class 2 as it is currently implemented.

Since Class 2 has been approved in a much modified form from its original ballot, the official Class 2 is going to be called Class 2.0! Class 2.0 FAX Modems should be available within 6 months and possibly as firmware upgrades for existing FAX Modems. In the mean time, the committee is now looking into Class 3 & 4, plus Voice Mail standards and Caller ID standards. At the same time the CCITT is working on the non-computer related FAX standards called Group 4 and beyond.

In some ways Class 2 is a restrictive layer over the low level Group 3 protocol, however it removes much of the timing responsibility away from the DTE computer. On an 8MHz 68000 (stock ST) or in a multitasking environment (Multi-TOS) this can be critical. The best FAX Modems are those that support both Class 1 and Class 2. On FAX Modems such as these it is possible to switch between Class 1 and Class 2, i.e. while in Class 2 the FAX Modem may be switched into Class 1 to issue commands that might not be possible in Class 2.

Class 2 currently has its problems in implementation differences due to the lack of an approved standard. Many Class 2 FAX Modems do not support all of the features that Class 2 defined, such as binary file transfer, error correction modes, and FAX polling. Other capabilities such as Super Fine Resolution are not available in Class 2. All of these capabilities can be accessed via Class 1, provided that the software application supports them. The software program must issue the Group 3 commands that implement these capabilities. Of course all of these capabilities will be available in Class 2.0.

Our decision to support Class 1 is based on three factors:

1. Many established high end FAX Modems are Class 1 only by choice. There are many users who are loyal to these modem vendors and will not purchase other lesser known brands.
2. Many very low end FAX Modems are Class 1 only. We may develop a special STraight FAX! Lite to be bundled by dealers/distributors with these FAX Modems to offer an entry level FAX modem with software at a very low price.
3. There are problems in some Class 2 implementations, since some of these FAX Modems also allow Class 1, the user will have a choice.

On the negative side:

1. Class 1 requires more of the DTE computer's CPU overhead. This may not be a problem with a TT/030, Falcon030 or other accelerated ST, however it will be on a stock 8 Mhz ST and it will be under Multi-TOS.
2. By the time we support Class 1, everyone will start to hear about Class 2.0 and how great it is. Dont be suprised if there is a firmware upgrade available for a Hayes or USR FAX Modem to support Class 2.0 in six months.

3. Most users are moving away from 2400 baud only FAX Modems into V.32/V.32bis 9600/14400 baud FAX Modems.

Charles Smeton  
NewStar Technology Management

BTW, Class 3 will probably allow Text and TIFF files to be FAXed directly with the FAX Modem doing all of the conversion.

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#### A CLOSE-UP LOOK AT THE FALCON

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--> In the "Atari Corporation Online" category (14)  
--> from the "Atari Falcon 030 Computer" topic (20)

Message 126            Sun Dec 20, 1992  
EXPLORER.1 [] Ron []            at 11:59 EST

Since Bob has taken the wraps off the production Falcon030 Atari was kind enough to send me to review for Atari Explorer, I would be happy to answer any questions I can.

Having used a Falcon030 for over a week now, I believe anyone who has an opportunity to work with one will be pleased. My kids love it and are encouraging (yea, right, how about demanding? :-) me to get the review finished \*NOW\* so they can get some more time at the wheel. There were more than one "ahhh" experience accompanied by big grins as we discovered new and interesting aspects of the computer. Falcon030 is flat out a very fun computer to mess around with.

The near-photographic-quality graphics capability has to be seen to be appreciated; "specifications" simply do not seem to do it justice. Just as a reality check, I took a trip to CompUSA today and saw nothing on display with video the quality of the Falcon030.

For day-to-day work, the 256-color 640 x 480 mode works wonderfully providing a TT-like screen compatible with most applications; I'm using Stalker on the Falcon030 right now in color with full resolution on a NEC 3D. That fact alone is enough to sell me. There are three "ST compatibility" modes built into the video configuration menu - ST low, medium and high. You can now even do ST hi-res on the Atari SC1224 color monitor!

Speed in using real world applications is much better than I expected, even in the higher resolution graphics modes. I've been bouncing back and forth between the Falcon and a MStE installed doing side by side work. The Falcon looks and feels significantly faster in real world use.

The digital sound is great. Audio Fun Machine demos the DSP working with audio to generate special effects real time and will be a big hit at any party. There is no slow down at all as the DSP processes data.

One opinion rolling around in my mind is the Falcon030 is not an ST. It is a very different computer - much more different than the TT is from the ST. Falcon030 is in new ways a greatly improved computer that just happens to be ST compatible. I'd call it the Mazda Miata of computers: fast, fun, inexpensive and flashy. :-) Not a bad combination for an



entertainment product.

- 1) There is some Flicker in truecolor mode on the SC1224 (on a Samsung SM1224 monitor). I wouldn't know how to gauge how pronounced it is. With proper color and contrast adjustment, it is usable. I don't think the flicker is any worse than interlaced VGA I have seen on PC's or Amiga. Same physics at work I guess. Same is true running in ST hi res or 256 color on the SM1224.

Display quality on a NEC 3D is outstanding in all Falcon and ST graphics modes. You end up with probably 25% more screen to work with in VGA 256 color mode compared to ST medium or high.

- 2) A desktop window full of icons updates about 40% faster in 256 color mode compared to truecolor (on the SC1224). 256 color updates are about the same speed as my MSTe in monochrome mode. The Falcon is about 35% faster in ST monochrome mode when compared to my MSTe in the same mode, (all timing comparisons *\*very\** rough, non-scientific, measured by a stop watch).
- 3) I noticed a folder full of ZOO'd files that look like they might be MultiTOS but I haven't had a chance to install it yet. I pulled a couple "all-nighters" (remember those?) just trying to get the basics of the machine into words for the review.
- 4) The Falcon030 I received came with a manual much like the MSTe/TT manual, Atari and VGA monitor adaptors, mouse, power cord, a Language (country) disk with; HDX, CPX, HINSTALL, etc. and a Extra Programs disk (1.44 meg) with two great games (Breakout and Landmines), Talking Clock - a high tech grandfather clock (who's voice is that Bob? :-), CalAppointment - a great calendar PIM accessory, and Procalc which I believe was once a commercial product. Included software will change with the units when they ship. I'm fairly sure Audio Fun Machine (DSP based real time sound effects - pretty cool!) and D2D (Stereo direct to disk recorder) are on the list to be added - maybe more.
- 5) Sorry, the only restriction Atari has placed me under is to avoid compatibility questions. Developers are ultimately responsible for compatibility statements. There are developers working on upgrades so it is not fair to single anyone out before the computer is in distribution. Some developers have not yet had a chance to try their product on a Falcon030. The many graphics modes makes compatibility testing a much larger job than we have had in the past.

Please don't let the preceding statement scare anyone. In limited testing on my part, compatibility looks very good. I'd expect most applications advertised to work on the TT will do well on the Falcon030. The desktop includes compatibility modes for each of the ST resolutions on a Atari and VGA monitors. I will say I have found PD code that works on the Falcon030 that does not work on my MSTe, which I take as a good sign. I think the Atari software group did a very good job in a difficult task to maintain software compatibility to the greatest extent possible.

- 6) All the other ports work as expected. A standard Workstation mini-SCSI cable works fine connected between the Falcon and my Syquest 88 - so much for the custom cable rumor.

A demo version of D2D was on the Falcon030 that Atari loaned me. The

program looks/sounds great and offers a ton of options. You can fill a hard drive very quickly sampling 16-bit stereo at 50 KHz.

The keyboard feels just like an ST or STe keyboard. The 16-bit digital stereo keyclicks provide very good feedback. <big grin>.

The version of ICD's Rate HD I have does not seem to know about IDE drives yet. I need to order the PRO kit. The internal IDE drive is preceptibly faster than the external SCSI (Syquest) I'm using for testing.

I have not tried MultiTOS yet.

A personal editorial comment on Falcon030 availability - I doubt anyone wants to be shipping Falcon030's right now more than the people at Atari. Just something to think about.

.. replies to questions asked in old Falcon 030 topic...

T-Bird, I'm already working with developers on compatibility testing. Catch me in e-mail if you have something specific in mind. GFA basic stuff seems to all work so far.

Peter, nice to see we're helping out. I'm heading out for vacation after Christmas and half regretting it, I want to play! :-) The computer will be loaned to a local developer who's doing some Photo CD work. He is on GENie and perhaps he'll stop on by while I'm gone and let you know what he thinks.

Greg, you are right, there are definately NTSC and PAL versions of the Falcon. You need a US unit to use it on a US TV.

Sean, Falcon030 seemed to work great with the ST sound software I tried. The internal speaker is \*loud\* and sounds great for a built-in speaker.

The fan is noise is noticable (the fan is a small PCB mount critter) but makes less noise than my MStE. The computer only gets a little warm to the touch, I'd say definately cooler than the 1040ST. The surface mount board (\_very\_ clean design!) leaves lots of space between the chips for cooling, and everything does run cool. The IDE drive is probably the largest heat generator and I'd guess it is less than 5 watts.

Getting to the insides is relatively easy. There is a top shield that pops off after removing a dozen screws. You then have easy access to the hard drive, power supply, floppy drive, expansion slot, FPU socket (under power supply), TOS ROM <-one chip!) and RAM board. Shouldn't take more than ten or fifteen minutes to get to anything and have things back together. I see lots of opportunity for hardware hacking - maybe even adding RCA jacks. :-)

Ron @ Atari Explorer Magazine

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##### JOHN SCULLEY SPEECH AT ECONOMIC CONFERENCE  
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This is a transcript of John Sculley's (Apple Computer Inc. CEO) remarks made at President-Elect Bill Clinton's Economic Conference in Little Rock, AK on December 15. This file is from Apple Computer which grants permission to all for redistribution.

Clinton Economic Conference- John Sculley's remarks:

We are at a major turning point in the world economy. This is a change as significant as the transformation of our 19th c. agricultural economy into the 20th c. industrial age a century ago.

The hallmark of this 20th c. industrial economy has been mass production and mass consumption.

The mass production/mass consumption model of business was pioneered in this country by early 20th century leaders like Henry Ford and the industrial engineer Fredrick Taylor. This model assumed that all important decisions were centralized around a small managerial elite. "Thinking" was purposely separated from "doing". Work was broken down into repetitive tasks, consciously eliminating as much decision making as possible by the workers. Quality was defined around rigid standardization. There was little flexibility in the work process.

Perhaps the biggest change in this decade will be the reorganization of work. That is, reengineering the ways in which work gets done productively.

But here's a major problem. Most Americans don't know what the New Economy is, yet it will dramatically impact their lives in the years ahead. Today we measure economic health on internal comparisons like GDP growth and unemployment rates. In the New Global Economy, the key indicator is standard of living, as measured externally by comparative productivity versus other industrialized trading regions. Our high standard of living already requires higher productivity than the rest of the world (e.g. fortunately we are still ahead) but we are losing ground. Real income is down. Only the best educated/higher income families are holding their own.

In the New Economy, that old industrial model is being replaced by a rapid move towards customization of goods and services and the decentralization of work. Today, new products can be developed in a fraction of the time it took in the old industrial economy; services and products are being custom-built-to-order; quality is dramatically improving and costs are being driven down through the use of new technologies such as computer systems, robotics and measurements systems.

In the New Economy workers are on the frontline interacting with customers and workers on the factory floor are empowered to make decisions. This is the only way customized goods and services can be created quickly, with the highest quality, at the lowest cost and with the maximum flexibility.

In the old economy, America had a real advantage because we were rich with natural resources and our large domestic market formed the basis for economies of scale.

In the New Economy, strategic resources no longer just come out of the

ground (e.g. oil, coal, iron and wheat), the strategic resources are ideas and information that come out of our minds.

The result is, as a Nation, we have gone from being resource rich in the old economy to resource poor in the new economy almost over night! Our public education system has not successfully made the shift from teaching memorized facts to achieving the learning of critical thinking skills. We are still trapped in a K-12 public education system which is preparing our youth for jobs that no longer exist.

The New Economy is Global. We are no longer alone at the top. In fact, The United States is underprepared to compete with many other major industrialized trading regions in the world.

Students in other industrialized countries are learning math, sciences and critical judgment skills more relevant to the New Economy.

Other industrialized countries have an alternative path for the non-college bound including vocational study and a school-to-work transition which is tightly linked with apprenticeships and worker training in industry.

We have few alternatives for non-college bound students so they can participate productively in the high skilled work of the New Economy.

The greatest certainty about the New Economy is the pace of change. Young people in school today can reasonably expect to have 4 or 5 careers. Skill needs will constantly change too. Education therefore must become a lifelong pursuit not just an institutional experience early in one's life. Education, training and retraining must become as much an ongoing experience in our lives as exercise and vacations.

Most Americans see our largest corporations going through massive restructurings, layoffs and downsizing. People know something has changed and they are scared because they don't fully understand it and they see people they know losing their jobs.

They also see their neighbors buying high quality, lower priced products from abroad and they ask why we can't build these same products or better ones here at home?

The answer is, we can. But only if we have a public education system which will turn out a worldclass product. We need an education system which will educate all our students, not just the top 15-20%.

A Highly skilled work force must begin with a world class public education system. Eventually, the New Economy will touch every industry in our Nation. There will be no place to hide!

In the New Economy, low skilled manual work will be paid less. The United States can not afford to have the high skilled work being done somewhere else in the world and us ending up with the low wage work.

This is not an issue about protectionism, it is an issue about an educational system aligned with the New Economy and a broad educational opportunity for everyone.

The reorganization of work into decentralized, higher skilled jobs is the systemic key to a vital American economy in the future. We are talking about the standard of living that we, and our children, and

their children will have well into the 21st century.

It's America's Choice: High Skills or Low Wages.

##### PHOTO CD

##### A Continuing Series

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Note: Eastman Kodak Company does not produce or market CD ROM drives. Kodak does not recommend or endorse any product listed or described in this guide. The guide is offered as a courtesy to our customers and is for informational purposes only. Kodak intends to update these guidelines on a monthly basis through early 1993. Please call 1-800-242-2424, ext. 53 to provide feedback or to receive an updated version of the guide.

\* Contact the drive manufacturers for more complete information on CD ROM drive compatibility.

(C) Eastman Kodak Company, 1992 CD ROM Drive Guide (12/92)

#### Photo CD System CD ROM Drive Compatibility Guidelines

The introduction of the KODAK Photo CD syem has been enthusiastically greeted by computer users who are eager to use high-quality photographic images on the desktop. However, the Photo CD system represents the first widely adopted use of multisession CD ROM technology. And because it is so new, there has been some confusion about the CD ROM drives, related components, and software required to incorporate Photo CD technology into the desktop environment. This guide is intended to help clear up some of the confusion.

Eastman Kodak Company has tested all of the drives, related components, and device driver software listed in this guide (see Tables A.1, A.2, B.1, and B.2) for compatibility with the Photo CD format. Each one of the drives herein has at least limited compatibility with the Photo CD format when they are used with the appropriate components and software (listed in the two columns adjacent to the drive column) and when they are part of one of the configurations described below. There is, however, no guarantee that the drives listed will work properly with the customer's computer configuration. The correct operation of the CD ROM drives and controllers with the customer's computer will depend on the correct version of device driver software and compatible computer peripheral hardware. Substituting different drives, components, and software may cause incompatibility. Customers should contact the CD ROM XA drive vendor with technical assistance questions.

The following system configurations were used to test the drives:

1.  
Compaq 486/33M (EISA bus) PC  
16 MB RAM  
340 MB hard disk drive  
MS DOS 5.0, WINDOWS 3.0 & 3.1  
Monochrome graphics display adaptor  
20" color monitor and 12" monochrome monitor  
SMC Ethernet card

Compaq VGA display card  
Matrox Impression S/AT high-resolution display adaptor (24-bit)

2.  
Dell 486D/50 (EISA bus) PC  
16 MB RAM  
212 MB hard disk drive  
MS DOS 5.0, WINDOWS 3.1  
17" color monitor  
Dell VGA adaptor (on mother board)

3.  
IBM PS/2 Model 57  
4 MB RAM  
160 MB hard disk drive  
PC DOS 5.0, WINDOWS 3.1  
14" color monitor  
IBM XGA video adaptor

4.  
MACINTOSH Quadra 700  
20 MB RAM  
160 MB hard disk drive  
19" color monitor  
SuperMac 24 PDQ Plus display adaptor (24-bit)

#### Reading Photo CD Images

In order to access Photo CD images on a computer, users need the following compatible components:

- a CD ROM XA-compatible (extended architecture) Mode 2 Form 1 drive
- a CD ROM XA-compatible controller (also known as a host adaptor or controller board)
- a cable to connect the drive to the controller
- device driver software (low-level device driver and foreign file system driver)

Together, these four components form a CD ROM XA-compatible drive subsystem. Each component of the subsystem must be capable of supporting the Photo CD format. It is essential that customers contact the drive manufacturers for specific information on the Photo CD compatibility of their CD ROM XA drive and subsystem components before purchasing those items. Customers can also call the Kodak Information Center (1-800-242-2424, ext. 53) for current drive compatibility information.

In addition to the hardware and driver software listed above, customers also need application software capable of accessing Photo CD images. Kodak offers a family of Photo CD-enabled software packages that can access, store, import, and enhance Photo CD images and high-quality digital images in other popular file formats. Customers can call 1-800-242-2424, ext. 53 for more information on the KODAK Photo CD software offerings.

#### Single Session Drives

There are CD ROM XA-compatible drives available today which can access images written to a compact disc during a single recording session. These drives are known as single session drives. The single session CD

ROM XA-compatible drives listed in Tables A.1 and A.2 offer limited capability in reading Photo CD discs.

Specifically, the single session CD ROM XA-compatible drives will read Photo CD images recorded onto a Photo CD disc in ONE session. These drives will not recognize data appended (i.e., added) to a disc after the initial recording session, however. A single session drive is suitable for anyone who wants to begin working with Photo CD images immediately and is able to limit data recording to one session per disc.

#### Multisession Drives

The Photo CD system offers the considerable advantage of allowing images to be appended to a disc in multiple recording sessions. Users who want to take advantage of that capability will need multisession drives to read the data appended to discs in subsequent recording sessions. The drives have been determined to be fully capable of playing multisession Photo CD discs. Look for the Photo CD logo on drives that have passed Kodak's testing and are licensed in our Photo CD branding program. Call 1-800-242-2424, ext. 53 to learn more about the branding program for multisession drives.

Single Session CD ROM Drive Subsystems with limited capability for reading Photo CD discs For IBM PC/AT Computers, IBM PS/2 Computers, and Compatible Computers:

CD ROM, Inc. (SCSI bus) - CRI 1000i (internal and external)  
- Trantor controller: T128 (XT/AT only), T130 (XT/AT/EISA)  
- Software version 1.46d or later

-----  
Chinon (SCSI bus) - CDX-435  
- Trantor controller: T128 (XT/AT only), T130 (XT/AT/EISA)  
- Software version 1.46d or later

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Texel: - DM3024 (internal) - DM5024 (external)  
- Trantor controller: T128 (XT/AT only), T130 (XT/AT/EISA)  
- Software version 1.46d or later.

-----  
Toshiba: - TXM3301B (internal) - TXM3301E1 (external)  
- Trantor controller: T128 (XT/AT only), T130 (XT/AT/EISA)  
- Software version 1.46d or later.  
(Toshiba plans an upgrade to multi session. Call 714-583-3129 for more information.)

-----  
(choose either 1 or 2)

NEC (SCSI bus)

- CDR-73 (external)	1. - NEC controller
- CDR-83 (internal)	- CD-XT002 (XT/AT only)
- CDR-36M (portable, external)	
- CDR-37 (portable, external)	or
- CDR-74 (external)	
- CDR-84 (internal)	2. - Trantor controller
	T128 (XT/AT only),
	T130 (XT/AT/EISA)

- Software version 1.46d or later.

IMPORTANT NOTE: NEC's CDR-74 drives with serial #s B2X04192 and higher and CDR-84 drives with serial #s 12Y00001 and higher work correctly with single session Photo CD discs.

NEC offers a no-cost repair for drives that do not read Photo CD discs.  
Call the NEC support line for assistance.

-----  
Philips/Magnavox (proprietary bus, XT/AT only)

- CDD 461 (kit)
- Controller card included with CDD461 drive
- Software included with CDD461 drive; must be version 1.03 or later

-----  
Sony (proprietary bus, XT/AT only)

- CDU-535 (internal)                      - CDB-X10 (XA Controller)
- CDU-6205 (external)                   - RKB-101 (cable)
- OPA 1011/3 (CD caddy)
- Low-level device driver included with CDB-X10 controller
- MSCDEX (software version 2.20 or later)

-----  
Sony (proprietary bus, XT/AT only)

- CDU-7205 (CD ROM library)      - CDB-X10 (XA controller)
- Device driver software is included with controller

-----  
Sony (SCSI bus) (choose 1 of the following) - CDU-541 (internal)

- CDU-6211 (external, private label)

1. - CDSEXT (includes SCSI host adaptor card, caddy)
  - CDU-7211 (external, Sony label) cable, driver software, XT/AT only)
  - Software driver included with CDSEXT; must be v2.21a or later      or

2. - Sony OPA 1011/3 caddy

- Future Domain SCSI controller (one of the following)

XT/AT: TMC-845, TMC-850M, TMC-860M, TMC-885M, TMC-1650, TMC-1660,  
TMC-1670M, TMC-1680;

EISA: TMC-1760, TMC-1790

PS/2: MCS-350, MCS-600, MCS-700

Future Domain CD ROM device driver software, v2.21a or later; (may be  
included with controller)      or

3. Trantor controller: T128 (XT/AT only), T130 (XT/AT/EISA)

Software driver included with Trantor controller; must be v1.46d or  
later      or

4. Adaptec controller AHA-1542BK (for driver choose A or B)

A)- ASPI manager software (included with Adaptec "kits" such as the  
1542BK) or

B) Corel SCSI software, v1.01F or later

Single Session CD ROM Drive Subsystems with limited capability for  
reading Photo CD discs

For Macintosh Computers

-----  
Apple (SCSI bus):

- Apple CD SC Plus (external)
- Apple system cable
- CDRom 150

Software is included with CD ROM drive

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NEC (SCSI bus)

- CDR-73 (external)
- Apple system cable
- CDR-83 (internal)
- Apple SCSI Terminator



- CDR-36M (portable, external)
- CDR-37 (portable, external)
- CDR-74 (external)
- CDR-84 (internal)

(choose either 1 or 2)

(Important: see Note i)

1. Trantor CD ROM drivers for Macintosh, version 1.36 or later

(Important: see Note ii)

2. NEC CD ROM drivers for Macintosh, version 2.25 or later

Notes:

- i. NEC's CDR-74 drives with serial #s B2X04192 and higher and CDR-84 drives with serial #s 12Y00001 and higher work correctly with single session Photo CD discs. NEC offers a no-cost repair for drives that do not read Photo CD discs. Call the NEC support line for assistance.
- ii. Trantor distributes the Apple Foreign File Access v1.1 and ISO 9660 File Access v2.0.1 with v1.36 of their own software. The Photo CD-enabled Apple CD ROM device drivers available with software. The user should obtain Foreign File Access v1.1.1 and ISO 9660 File Access v2.0.2 from Apple.

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Sony (SCSI bus)

- CDU-541 (internal)
- Apple system cable
- CDU-6211 (external, private label)
- Apple SCSI Terminator
- CDU-7211 (external, Sony label)

Trantor CD ROM drivers for Macintosh, version 1.33 or later

Multisession CD ROM Drive Subsystems with full capability for reading photo cd discs For IBM PC/AT Computers, IBM PS/2 Computers, and Compatible Computers:

Mitsumi (proprietary bus, XT/AT only):

- CRMC-LU005s (internal)

Controller and software are included with drive

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GenStar (proprietary bus, XT/AT only):

- 5000i (internal)

Controller and software are included with drive

-----  
Sony (proprietary bus, XT/AT only):

- CDU-31A (internal)

Controller and software are included with drive

-----  
Toshiba (SCSI bus kit, XT/AT only)

- TXM3301BSP40Z0 (internal with PC kit) Controller and
- TXM3301E1P10Z0 (external with PC kit) software are included with drive

Toshiba (SCSI bus kit, PS/2 only)

- TXM3301BSP60Z0 (internal with PS/2 kit)
- TXM3301E1P50Z0 (external with PS/2 kit)

Multisession CD ROM Drive Subsystems with full capability for reading  
Photo CD discs For MACINTOSH Computers:

Apple (SCSI bus)

- CD ROM 300 (internal , external)
- Apple System Cable
- Apple SCSI Terminator
- Driver software included with the drive

Following is a list of potential vendors for the components listed in  
the preceding tables. It is not a comprehensive list of sources of  
devices. Many components, such as IBM-compatible computers and Apple  
computer components, can be purchased at your local computer dealer.  
For information on availability, compatibility, pricing, or product  
specifications, please contact the individual vendors.

CD ROM drives:

CD ROM, Inc. (800) 821-5245 (sales) (303) 231-9373 (tech support)  
Chinon (310) 533-0274  
Genesis Integrated Systems, Inc. (612) 544-4445  
Mitsumi (408) 970-0700  
NEC (800) 388-8888  
Philips Consumer Electronics (800) 722-6224  
Sony Corporation of America (408) 434-6644  
Texel (800) 886-3935  
Toshiba (714) 455-0407 (714) 583-3129 (upgrade info)

SCSI controllers and device drivers

Future Domain Corp. (714) 253-0400, ext. 0491 (Rene Macare)  
Trantor Systems Ltd. (510) 770-1400  
Adaptec (408) 945-8600

Note: Eastman Kodak Company does not produce or market CD ROM drives.  
Kodak does not recommend or endorse any product listed or described in  
this guide. The guide is offered as a courtesy to our customers and is  
for informational purposes only. Kodak intends to update these  
guidelines on a monthly basis through early 1993. Please call 1-800-  
242-2424, ext. 53 to provide feedback or to receive an updated version  
of the guide.

Contact the drive manufacturers for more complete information on CD ROM  
drive compatibility.

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##### CONNECT - NEW TELECOMPUTING MAGAZINE  
##### Press Release  
##### -----

Pegasus Press  
3487 Braeburn Circle  
Ann Arbor, MI 48108  
(313) 973-8825

ANN ARBOR, MI -- For a limited time, Pegasus Press is offering

dramatically discounted subscription rates on its new magazine, CONNECT. Covering the major commercial online services, Internet/Usenet and bulletin board system networks, CONNECT focuses on telecommunications from a user's perspective. The first bi-monthly issue of CONNECT will be available in March, 1993.

Issue after issue, CONNECT shows you how to get the most from the commercial online services you're using -- CompuServe, Delphi, America Online, Prodigy, GENie and BIX. With columnists on staff to cover these services in depth, you'll find CONNECT a valuable resource.

CONNECT also shows you what "free" networks like Internet have to offer. Every issue of CONNECT contains Internet coverage that helps you find your way around the biggest network in the world.

But CONNECT doesn't stop there. BBS callers also receive a wealth of information from each issue. All varieties of computer platforms are covered in the pages of CONNECT, as are the many different types of bulletin board software and services found on these computers. Articles spotlighting BBSes in specific cities or similar categories (such as medical BBSes or handicapped-related systems) appear regularly.

Finally, each issue contains platform-specific columns highlighting programs available online for IBM and Macintosh users. Of course, you'll also find hardware and software reviews in CONNECT. From high speed modems and LAN-based BBS systems to shareware terminal programs, we cover it all.

Until February 28th, 1993, a year's subscription to CONNECT will be only \$12. On March 1st, 1993, the normal subscription price of \$18 per year goes into effect. This offer is available only to US addresses.

For more information, please contact Pegasus Press at 3487 Braeburn Circle, Ann Arbor, MI 48108 or phone (313) 973-8825. For the fastest response and a copy of the subscription form, please email us at 70007,4640. (On CompuServe)

Don't delay. Get CONNECTed today!

##### THE 1993 Z\*NET COMPUTER CALENDAR

##### Schedule of Shows, Events and Online Conferences

##### -----

### January 6-9, 1993

MacWorld Expo in San Fransisco California, Sponsored by MacWorld Magazine. Titled San Fransisco '93 at the Moscone Center. Mitch Hall Associates, PO Box 4010, Dedham MA 02026; (617)361-0817, (617)361-3389 (fax).

### January 7-10, 1993

The Winter Consumer Electronics Show comes to Las Vegas, Nevada. CES is an electronic playground, with everything in the way of high tech toys for kids and adults. Game consoles and hand-held entertainment items like the Atari Lynx are big here, and Atari will attend with a hotel suite showroom. Contact Atari Corp for more information on seeing their display at 408-745-2000.

### January 12-14, 1993  
Networld '93 in Boston, Massachusettes

### January 15-18, 1993  
NAMM is the largest conclave of musicians each year. Held in Los Angeles at the Anaheim Convention Center, the variety of sights at the National Association of Music Merchandisers is wilder than at Disneyland, just next door. Atari was the first computer manufacturer to ever display at NAMM in 1987, and has become a standard at the shows. A trade show for music stores, distributors, and professionals of every strata, entertainers are seen everywhere at NAMM. Contact James Grunke at Atari Corp for more information at 408-745-2000.

### January 19-22, 1993  
CD-ROM Development Workshop from Multimedia Publishing to Data Archival. UCLA Extension Bldg, Los Angeles CA. (310)825-3344, (310)206-2815 (fax)

### February 2-4, 1993  
ComNet '93 in Washington, DC.

### March 1993  
CeBIT, the world's largest computer show with 5,000 exhibitors in 20 halls, is held annually in Hannover, Germany. Atari traditionally struts its newest wares there, usually before it's seen in the USA or anywhere else. In '93, the Atari 040 machines should be premiering, and this is the likely venue. Third party developers also use this show to introduce new hardware and software, so expect a wave of news from CeBIT every year. Atari Corp and the IAAD coordinate cross-oceanic contacts to promote worldwide marketing of Atari products, and this show is an annual touchstone of that effort. Contact Bill Rehbock at Atari Corp for information at 408-745-2000.

### March 13-14, 1993  
The Sacramento Atari Computer Exposition is to be sponsored by the Sacramento Atari ST Users Group (SST) at the Towe Ford Museum in Sacramento, California. This show replaces the earlier scheduled, then cancelled Northern California Atari Fest for the Bay Area, to have been held in December 1992. A major two day effort, the SAC show is being held in the special events area of the Towe Ford Museum, home of the worlds most complete antique Ford automobile collection. As an added bonus, admission to the museum is free when you attend the Expo. The museum is located at the intersection of Interstates 5 and 80, just 15 minutes from the Sacramento Metropolitan Airport. Contact Nick Langdon (Vendor Coordinator) C/O SST, P.O. Box 214892, Sacramento, CA 95821-0892, phone 916-723-6425, GENie: M.WARNER8, ST-Keep BBS (SST) 916-729-2968.

### March 16-19, 1993  
Image World - Washington DC at the Sheraton Washington.

### March 20, 1993

Philadelphia, PA area group PACS is holding their 16th annual Computer Festival from 9 AM til 4 PM. It will be a multi-computer show with Atari showings by the PACS Atari SIG's, NEAT, CDACC, and JACS clubs. The Fest is to be at the Drexel University Main Building, 32nd and Chestnut Streets in Pennsylvania. Contact for Atari display: Alice P. Christie, 207 Pontiac Street, Lester, PA 19029, 215-521-2569, or 215-951-1255 for general info.

### March 21-24, 1993  
Interop Spring '93 in Washington DC.

### March 30 - April 1, 1993  
Intermedia 93 at the San Jose Convention Center, San Jose CA.

### May 3-5, 1993  
Digital Video New York/MultiMedia Exposition at the New York Sheraton in New York City.

### August 3-6, 1993  
MacWorld Expo at the Boston World Trade Center, Bayside Exposition Center and sponsored by MacWorld Magazine. This event is titled Boston '93.

### September 18-19, 1993  
The Glendale Show returns with the Southern California Atari Computer Faire, V.7.0, in suburban Los Angeles, California. This has been the year's largest domestic Atari event, year after year. Contact John King Tarpinian at the user group HACKS at 818-246-7286 for information.

### September 20-22, 1993  
The third MacWorld Expo, titled Canada '93 at the Metro Toronto Convention Centre, sponsored by MacWorld Magazine.

### September 21-23, 1993  
Unix Expo '93 in New York City, New York.

### October 27-29, 1993  
CDROM Exposition at the World Trade Center, Boston MA.

### November 15-19, 1993  
COMDEX Fall '93. Las Vegas Nevada.

If you have an event you would like to include on the Z\*Net Calender, please send email via GENIE to Z-NET, CompuServe 75300,1642, or via FNET to node 593 or AtariNet node 51:1/13.0

##### THE UNABASHED ATARIOPHILE  
##### By Michael R. Burkley

##### -----

Giving is on my mind tonight. It's Christmas night and I've both received and given many gifts today. For me Christmas is much more than the gifts I give to others or receive from them. Christmas for me is the celebration of the birth of Jesus Christ, my Savior. That's not why many people celebrate Christmas, for them it's just a mid-winter festival of good times and giving, not connected with any religious belief. That's OK with me, too (not that it makes much difference what I think!). I just feel that they're missing out on some of the "spice" that makes Christmas special.

The reason (other than Christmas) that I writing about giving tonight is that I am so often amazed at the giving I see throughout the Atari community. Sure, we are often angry at each other and sometimes bitter, but again and again I see us giving to each other. I downloaded over 30 files this past week (I could have gotten at least 40+ new uploads, but didn't for one reason or another). Each of those files were painstakingly created, debugged, and tested; documentation was written, pictures were converted, and names were attached. Then someone had to spend the time uploading those files to an online service or BBS. A volunteer SysOp (in the case of a BBS) maintained a bulletin board that allowed me and others to call and download a file. That's a lot of giving. It's downright encouraging! THANK YOU!

Here's a selection of those files, given to you:

50PLAY is the Pro-Tracker V2.1a Replay (STE/TT) v.1.2 by Martin Griffiths. Some of its features are: 50KHZ STE stereo output, Full Compatibility with ALL NoiseTrackers upto NT2.0 (Amiga), Compatible with Protracker 1.0 - 2.1a (Nov '92 Amiga version.), The only player to feature all Protracker commands, After lots of requests now does 'CIA timing,' which means it is the ONLY player that can play modules using the TEMPO command! This player doesn't have a flash graphical front-end, nor is it meant to. The program is written to take as little space as possible. (58k memory resident ,or about 18k on disk (even less if packed...)) It does not 'pad' the samples to gain extra cpu time like most players. This saves memory and means modules are always replayed accurately--the player simply 'emulates' the Amiga Paula soundchip. C source code and docs included. Color or mono.

AEO\_SE2 is the Special Edition #2 of ATARI EXPLORER ONLINE dated Dec. 20, 1992. This edition includes: Falcon030 review and icon pics, The Three "R's" - AEO style, Lexicor's new Phoenix!, Merry Lynxmas - What a deal!, STraight FAX Distribution Change, DMC Promotion Extended, IAAD Membership List, Fair Dinkum Xmas Offer, MORE isn't always better, AEO Survey Results, PhotoChrome3 and OXYD, Atari Software Catalog, The Continuing Saga of Caveat Emptor by Don Harris, A Statement from Atari concerning ABCO Computer Consultants.

ATARIPCS is another amazing .PCS file. It shows a 3-D Atari logo and name carved out of colored marble and sitting on a checkered floor. I warn you right now, for quite some time I will be raving about Photo Chrome pictures. Seeing 19,200 colors on an STe color screen is amazing. The pictures are so life-like, better than I have seen before on an ST. Get PCHROME3!!

CALNDR is a Calendar .ACC and .PRG by Roy E. Dean. Move up and down through the months, years and decades with the touch of a button. What

day of the week was it when you were born? This will tell you. GFA Basic 3.5e .LST file included.

CAMPAIGN by Empire is a demo of a new war game that puts you in control of your own force of armoured vehicles in the fields of war. This program allows you to take full command of up to 3000 vehicles on over 20 historically accurate predefined maps ranging in size from 625 to 10 million square kilometers. Locations range from the Sahara and Russian Steppes to the Battles of the Bulge in the Arfennes and the decisive D day landings. Joystick or keyboard controlled. Excellent graphics and Digitized sounds. Online descriptions and help. Color only.

CENTGDS2 is a series of Century Schoolbook GDOS fonts in 12,18,24 pts. The printer fonts are 300 dpi and screen fonts are 72 dpi. 90 dpi is standard for most mono applications, but Calligrapher uses 72 dpi, so get this if you have Calligrapher.

CGP220 is a series of three color screen dump utilities for the CGP220 printer by Rich Weaver. Each of the programs is aimed to optimize a different type of screen dump use. SHAREWARE. Docs included.

EVADER v.1.1 by Dave Munsie (dated Dec. 1992) is a shoot-em-up game with excellent graphics and sound. Guide your craft by moving the joystick in the direction you wish to go. Pick up new weapons and powerpacks as you travel along. When your shields go the game is over. The game saves High Scores and restores the color palette upon exiting. Low rez color only. Created using GRA Basic 3.5e and the GP\_Graphics Engine. Docs included. Floppy or Hard Drive. ST/STe compatible. At least one meg RAM required.

EZBASE10 is Easy-Base by Anthony Watson of Mountain Software. This is a general purpose SHAREWARE database with all of the usual database functions that can be adapted to many common tasks such as Address Lists, Inventory, Checkbooks, etc. This program features build in math routines for re-calculating your grocery lists or checkbook totals. It uses the "FrontEnd" NeXT-like interface with 3-D buttons, etc.. The unregistered version of Easy-Base is fully operational including saving and printing of data files. However, there is a limit of 20 records for any one data file. Several sample databases included. The Registered version of Easy-Base is limited only by the free memory in your machine. Color or mono. Docs included. ST/STe/TT/Falcon compatible.

FIXAGIF is the Fix-A-GIF Utility v.0.50 by Lonny L. Pursell and ENCOM (dated Dec. 19, 1992). This utility should fix any GIF file which is properly constructed as outlined in the GIF specifications. It will remove extra data from GIF87a files, convert GIF89a files into GIF87a, and split GIF87a files with multiple images into separate files. Color or mono. Any ST--TT.

FLEX237 is a GNU port of Flex v.2.3.7 by Vern Paxson and jwahar r. bammi. I have no idea what this does. Docs included, but they mean nothing to me!

FOOTSHOT is "Shooting Yourself in the Foot" (and sometimes not being able to do so) using some of the many programming languages available today. Paul Lefebvre gives this lighthearted look at just what you can and cannot do using programming languages available today. It's fun to read whether you haven't learned to program (like me) or are conversant in all of the 18 languages mentioned.

GREETCRD is a Calamus SL 2-page .CDK and 1-page doc .CDK. Use this with 6.25"x9" fine linen single sheet paper with matching envelopes (available at stationery shops) to make wonderful Christmas, Birthday, and special occasion cards. Calamus SL required. 225K uncompressed. You have to adapt .CDK to your available fonts.

INVACCTD is Studio Manager v.1.06 by Up All Night Software (dated Dec. 1992). This is an ST based Invoice and Accounting package for music studio management. Created by studio musicians to make their task easier, this demo of the commercial product is intuitive, easy to learn, and quick. If you have a home or professional recording/midi studio this program is for you. It handles client invoice billing and accounts receivables. This demo is save and load disabled. Printer drivers for various printers including the HP Laserjet are included. Color or mono. Any ST(e).

JAYNESMP is a .SMP sound file for use in GEMSOUND. It is of Jayne Mansfield's siren squeal from her big number in "The Girl Can't Help It." For those of you who haven't seen this hilarious movie, Jayne's boyfriend wants to make her a rock star, but she can't sing a note! Nevertheless "Rock Around The Rockpile Blues" becomes a big hit because of her siren squeal on the cue "when I hear the whistle blow!"

KID\_GP is a game by Dave Munsie created using GRA Basic 3.5e and his GP\_Graphics Engine. His kids love it (I do too!!) The object of KID\_GP is to collect all the diamonds found on each screen. That's all you have to do to advance to the next screen (15 in all). In the mean time various characters will either try to chase you or just get in your way. To make things a little more interesting there is a hammer on each level which you can grab and clobber them down to size. There's also special mushrooms that you can collect to either speed you up or make you invisible for awhile. This is another one of those "I'll try it one more time!" games. Joystick controlled. At least one meg of RAM required. Docs included. Floppy or hard drive.

MAHJONGG by Jens Schulz and Thomas Grube is an \_excellent\_ color and mono version of the classic Indian game Mah Jongg. This comes in both an English and a German version. I think this is an excellent complete and free version of this game. The graphics are excellent, the options to change the background and tile colors are very nice, and overall I heartily recommend this game. The written docs are in German, but there is English on-line help. I only wish it had an option to show you a suggested move. Timed or untimed games available. ST/STe/TT.

BRSHWRKS is BrushWorks TT a full-featured SHAREWARE painting package for the TT' 256 color graphics mode. This program contains tons of features (as read from the Docs). Tony Barker has made some excellent demos for the STe and now since he's gotten a TT he's producing programs for it. Since I don't have a TT <sigh> I can't tell you from experience what a wonderful program this is. Color only. Docs included.

PRE\_EDIT is the Desk Manager Preset Editor v.1.4 by Charles F. Johnson. This version fixes a bug that some people were having when a preset file contained six .ACC's (the custom files were not being saved). This version has been compiled with the latest GFA compiler, and should work on an ST, STe, or TT. No docs (see your Desk Manager program).

PRINTALL is PrintAll v.1.0 by Greg Wageman. This seems to be one amazing program! This utility recognizes, reads and prints the



following file extensions/formats in color or greyscale on the HP 500C Color DeskJet printer, and in greyscale on the HP 500: .GIF .MTV .NEO .PC1 .PC2 .PI1 .PI2 .QRT .SPC .SPU Extensive docs are included. With less than four meg of RAM you will find yourself limited in the size of the pictures you can print out. If you have a HP DeskJet (color or not) this program is for you! Color only.

TFA516 is a beautiful and detailed picture of a view overlooking Trunk Bay on St. John, Virgin Islands. Travel Magazine declared this the most beautiful beach in the world. This PhotoChrome .PCS format picture is one of the most beautiful on your STe!

TFA574 is a .PCS picture of the skyline of Dallas, TX as seen when the sun is setting. Gold shimmers as the sunlight reflects off the glass buildings. Another beautiful PhotoChrome picture!

TFA575 is a PhotoChrome .PCS format picture of a sunset over ST. Thomas island in the Virgin Islands. The sun glows through the remains of an afternoon thunderstorm.

TFA576 is an absolutely stunning .PCS picture of Emerald Bay on Lake Tahoe. The clear blue water, touched by wavelets; the tall pines, the huge mountains in the distance, all make this look like a window on the world.

ZOE is a beautiful .PCS picture of a beautiful young woman named Zoe (which means "spiritual life" in Greek). The view is of her face and hair. Near photographic quality.

THE\_RAM is a small .ACC resizable RAM disk by Tom Mack. It may be installed, resized or removed at will from 100K to 3900K. It also installs itself in the first available drive slot so you don't need to choose. Color or mono. Docs included. SHAREWARE.

USEFUL is an extension for STOS that reads the palette of the sprites and uses those colors in defining the 16 color palette. Very useful in developing games and not having to remember the colors for your sprites. No docs.

That's not all of the "gifts" I received this past week, but that's all I have time to pass on to you now. It's time (past time!) to turn on my modem and send this off.

All of these files can be found on one or more of the following on-line services: GENie, Delphi, The CodeHead BBS (213-461-2095), Toad Hall (617-567-8642), and The Boston Computer Society's Atari BBS (617-396-9730).

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